

FIG. 1

09753943.040044  
 110

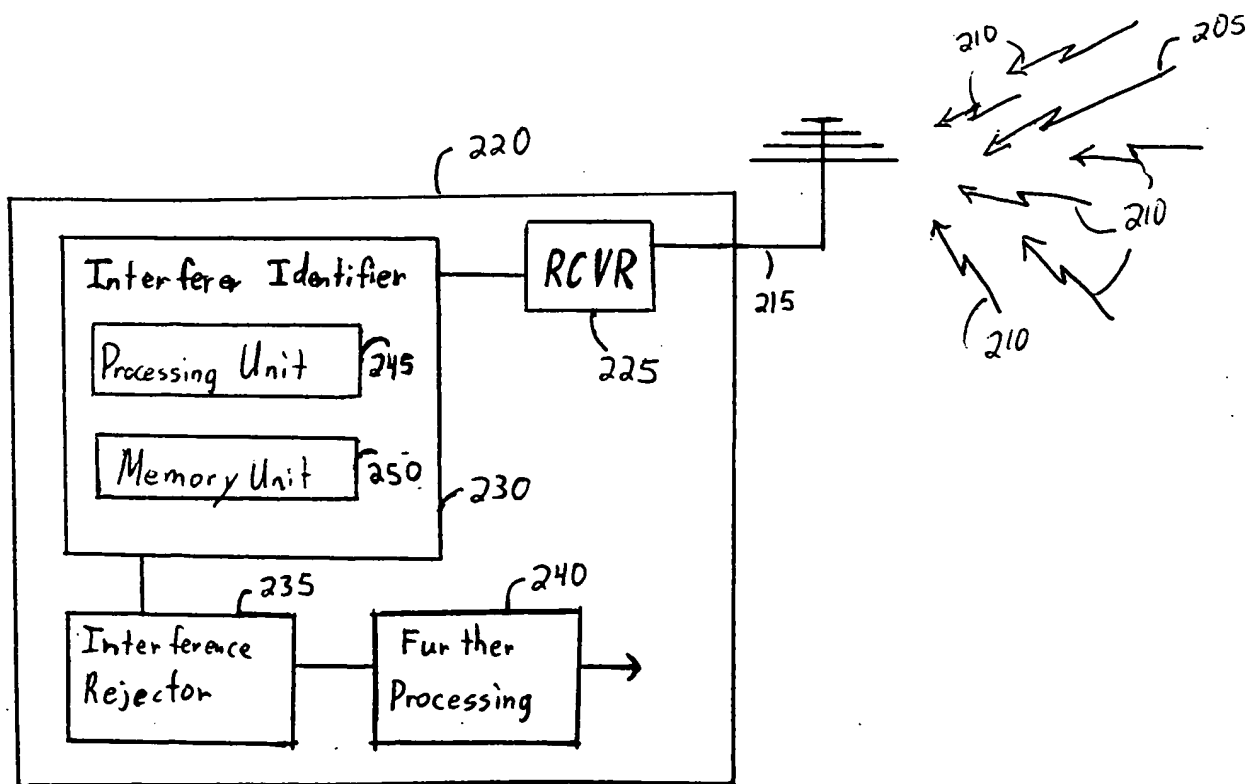


FIG. 2

300  
↙

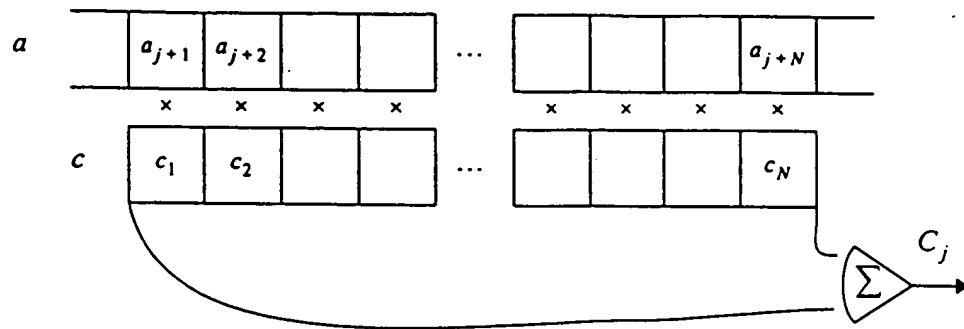


FIG. 3A

0075943-01004  
F00010-ET000200

# Training Sequences

320

index i	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26
Seq. #																										
1	1	1	1	-1	1	1	1	1	-1	-1	-1	1	-1	-1	1	-1	1	1	1	-1	1	1	1	1	-1	-1
2	1	-1	1	-1	-1	1	1	1	1	1	-1	1	1	-1	-1	-1	1	-1	1	-1	-1	1	1	1	1	1
3	-1	1	-1	-1	1	1	1	-1	1	-1	1	1	-1	-1	-1	-1	-1	1	-1	-1	1	1	1	-1	1	-1
4	-1	-1	-1	1	1	-1	1	-1	1	1	1	-1	-1	1	-1	-1	-1	-1	-1	1	1	-1	1	-1	1	1
5	-1	1	-1	-1	-1	1	1	1	1	-1	1	1	-1	1	-1	-1	-1	1	-1	-1	-1	1	1	1	1	-1
6	-1	1	-1	-1	-1	-1	1	1	1	-1	1	1	1	-1	1	-1	-1	1	-1	-1	-1	-1	1	1	1	-1
7	-1	-1	1	-1	1	1	-1	1	1	1	-1	1	1	1	1	-1	-1	-1	1	-1	1	1	-1	1	1	1
8	-1	-1	1	-1	-1	1	-1	1	1	1	-1	-1	-1	-1	1	-1	-1	-1	1	-1	-1	1	-1	1	1	1

FIG. 3B

340

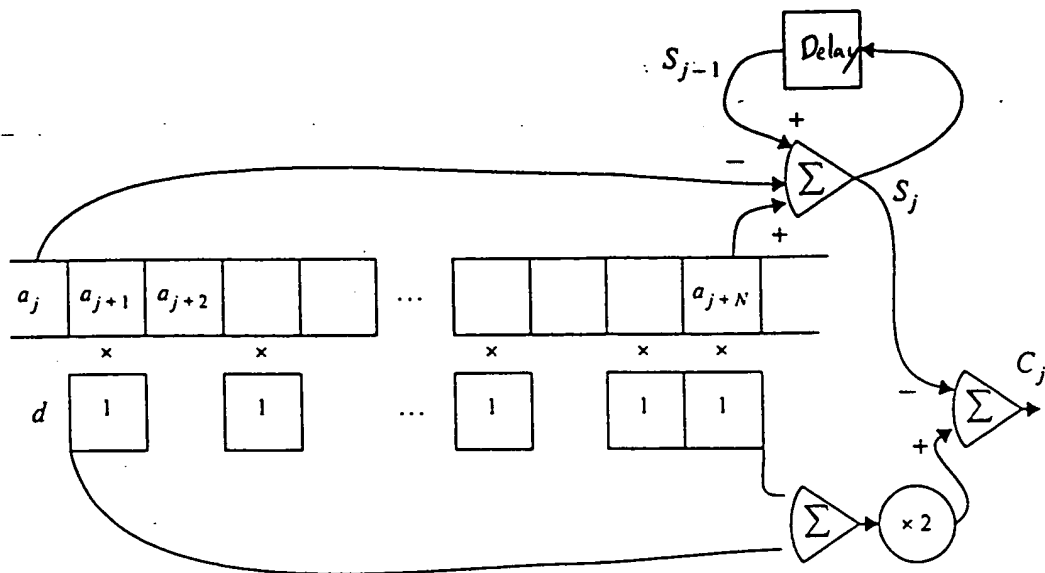


FIG. 3C

360

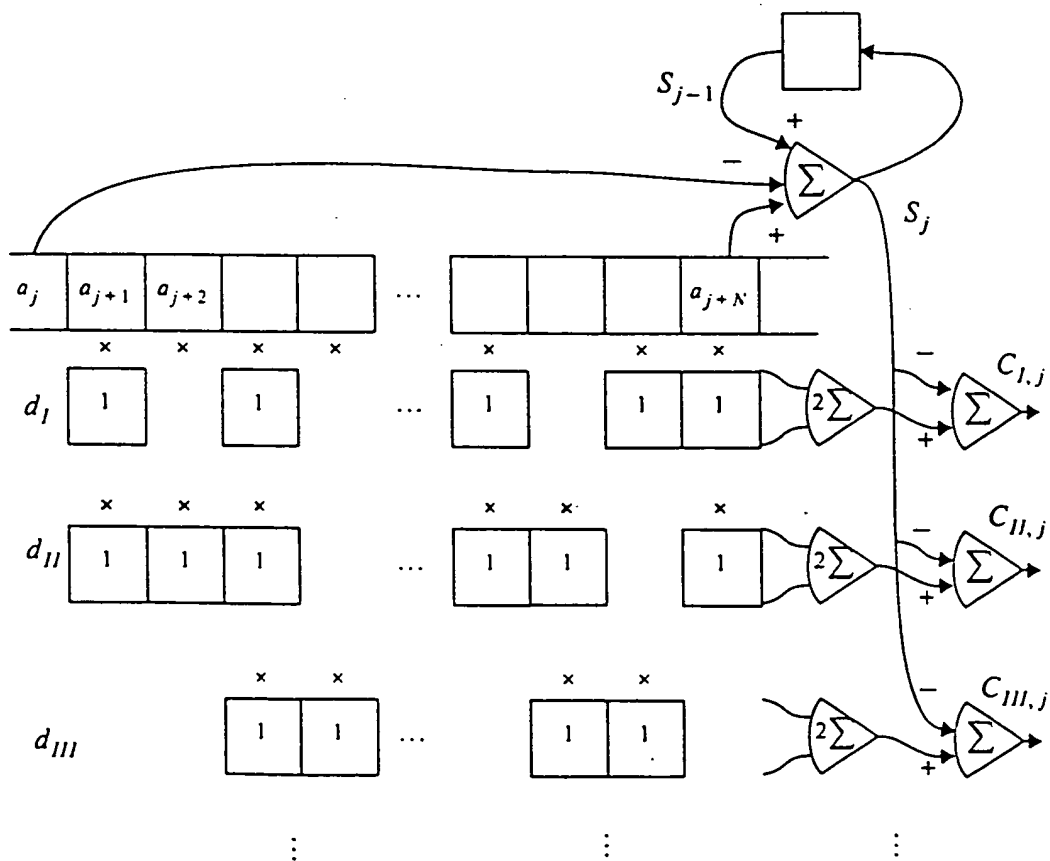


FIG. 3D

380

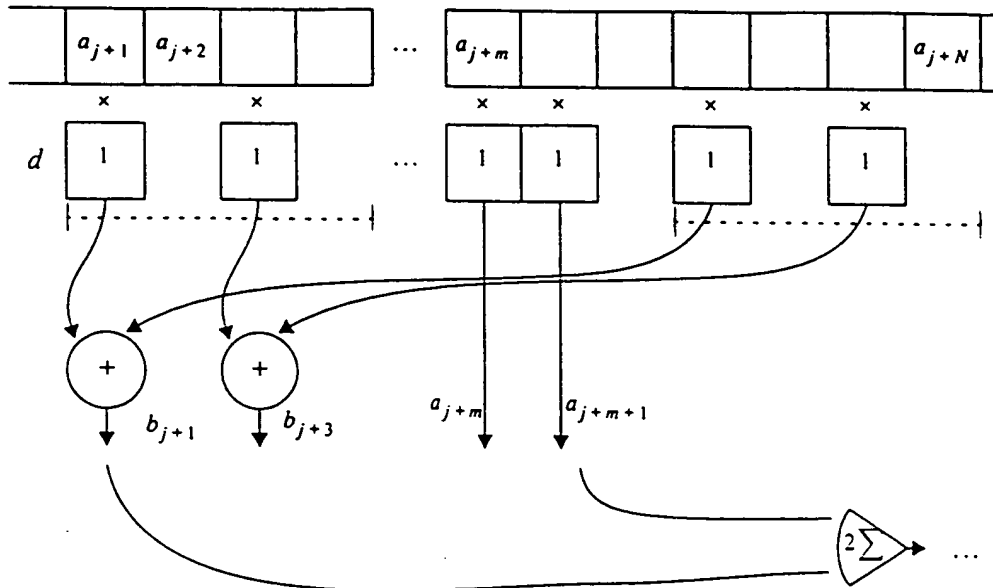


FIG. 3E

00959913-010204

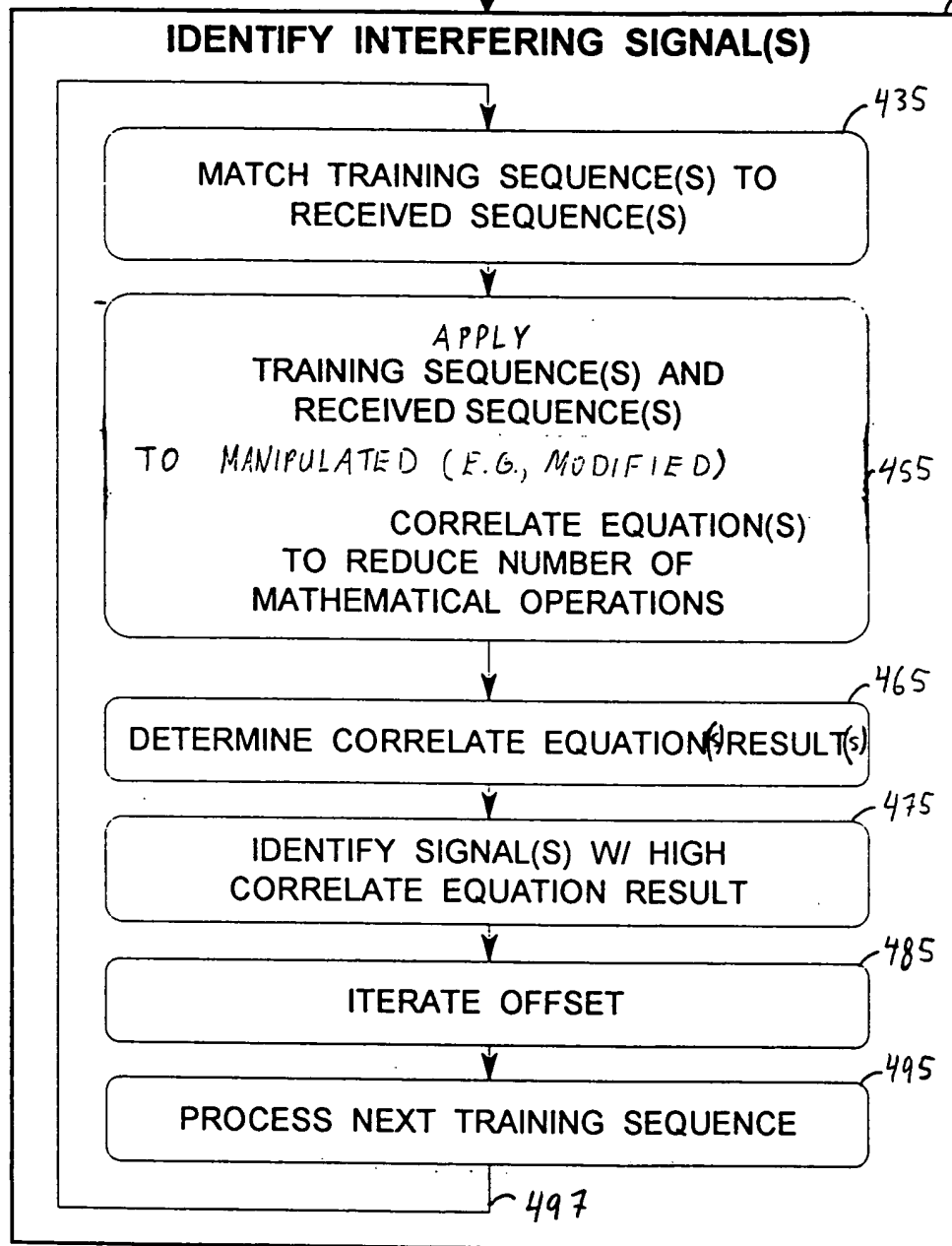


FIG. 4

455A

MODIFY THE  
CORRELATE  
EQUATION(S) TO  
INCLUDE A SUM  
THAT IS  
DEPENDENT ON  
THE RECEIVED  
SEQUENCE(S) BUT  
INDEPENDENT OF  
THE TRAINING  
SEQUENCE

**FIG. 4A**

455B

MODIFY THE  
CORRELATE  
EQUATION(S) SO  
THAT ALL  
PRODUCTS  
CORRESPONDING  
TO AT LEAST ONE  
VALUE OF THE  
TRAINING  
SEQUENCE(S)  
BECOME ZERO

**FIG. 4B**

455C

MODIFY THE  
CORRELATE  
EQUATION(S) SO  
THAT THE NUMBER  
OF PRODUCTS TO  
BE CALCULATED IS  
LESS THAN THE  
NUMBER OF  
VALUES IN A  
TRAINING  
SEQUENCE

**FIG. 4C**

455D

MODIFY THE  
CORRELATE  
EQUATION(S) BY  
ELIMINATING  
COMMON  
SUBEXPRESSIONS

**FIG. 4D**

09759104004  
FIG. 4A-4D

FIG. 4E

455E

MODIFY THE  
CORRELATE  
EQUATION(S) SUCH  
THAT A NEGATIVE  
OF A CORRELATE  
RESULT IS  
DETERMINED IF A  
NUMBER OF  
NON-ZERO FIRST  
ORDER TERMS IS  
GREATER THAN A  
THRESHOLD

465E

DETERMINE  
CORRELATION  
RESULT FROM THE  
NEGATIVE OF THE  
CORRELATION  
RESULT ONLY IF AN  
ABSOLUTE VALUE  
OF THE NEGATIVE  
OF THE  
CORRELATION  
RESULT IS  
GREATER THAN A  
THRESHOLD

FIG. 4E

500



505		510										515									
505a	$a_{16}$	000000000000000010000000000000000000																			
	$a_{15}$	000000000000000010000000000000000000																			
	$a_{14}$	000000000000000010000000000000000000																			
	$a_{13}$	000000000000000010000000000000000000																			
	$a_{12}$	000000000000000010000000000000000000																			
	$a_{11}$	000000000000000010000000000000000000																			
505b	$b_{10}$	000000000010000000000000000000000001																			
	$b_9$	000000000010000000000000000000000010																			
	$b_8$	000000001000000000000000000000000000																			
	$b_7$	000000010000000000000000000000000000																			
	$b_6$	000001000000000000000000000000000000																			
	$b_5$	000010000000000000000000000000000000																			
	$b_4$	000100000000000000000000000000000000																			
	$b_3$	001000000000000000000000000000000000																			
	$b_2$	010000000000000000000000000000000000																			
	$b_1$	100000000000000000000000000000000000																			

FIG. 5